| Inde  | Y O      | f C | lai | ms  |
|-------|----------|-----|-----|-----|
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Application/Control No.

Applicant(s)/Patent under Reexamination

09/822,496

Examiner

UCHIDA, TOSHIHARU

Art Unit

Raymond J. Bayerl

2173

| <b>√</b> | Rejected |
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| 11       | Allowed  |

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Restricted

| N | Non-Elected  |
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| 1 | Interference |

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|---|----------|
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|             |          | Ь—       | _        |              |              |              | J        |          | _        |  |   |          |  |
|-------------|----------|----------|----------|--------------|--------------|--------------|----------|----------|----------|--|---|----------|--|
| Cla         | aim      | Date     |          |              |              |              |          |          |          |  |   | Cla      | aim                                    |
| Final       | Original | 12/3/03  | 8/3/04   | 3/3/05       | 11/3/05      |              |          |          |          |  |   | Final    | 1                                      |
|             | 1        | 1        | 1        | 1            | V            | $\vdash$     |          |          |          |  |   |          | 5                                      |
|             | 2        | 1        | -        | -            | -            |              |          | Г        |          | Т  | ĺ |          | 5                                      |
|             | 2        | 1        | -        | -            | -            |              |          |          |          |  |   |          | 5                                      |
|             | 4        | 1        | ٧        | 1            | ٧            |              |          |          |          |  |   |          | 5                                      |
|             | 5        | 1        | ٧        | ٧            | ٧            |              |          |          |          |  |   |          | 5                                      |
|             | 6        | V        | ٧        | Ļ            | Ŀ            |              |          |          |          | <u> </u>   | ļ |          | 5                                      |
|             | 7<br>8   | 7        | 1        | 1            | 1            | <del> </del> |          |          |          |  | - |          | 55555555555555555555555555555555555555 |
|             | 9        | 1        | 1        | 1            | V            | ┢            | H        | ⊢        | $\vdash$ | ┢  | { |          | 12                                     |
|             | 10       | V        | Γ.       | Ť            | Ì.           | ├            | -        | -        | $\vdash$ | ├─   | ł | <u> </u> | 1 6                                    |
|             | 11       | V        | V        | 1            | 1            | ┝            | ├─       | ┝        | ┢        | $\vdash$   | ł |          | 6                                      |
| · · · · · - | 12       | V        | Ì        | V            | 1            | $\vdash$     | _        |          |          |  | l |          | 6                                      |
|             | 13       | V        | -        | -            | -            |              |          | $\vdash$ | _        | $\vdash$   | ĺ | <u> </u> | 6                                      |
|             | 14       | 1        | -        | -            | -            |              |          |          | Г        |  | ĺ |          | 6                                      |
|             | 15<br>16 | 1        | 1        | 1            | V            |              |          |          |          |  | j |          | 6                                      |
|             | 16       | 1        |          | <b>V</b>     | 1            |              |          |          |          |  | ] |          | 6                                      |
|             | 17       | V        | 1        | ŀ÷           | Ŀ            | ļ            | L_       |          |          | _  | Į |          | 6                                      |
|             | 18       | ٧        | 1        | V            | 1            |              |          | <u> </u> | L.       | <u> </u>   | Į |          | 6                                      |
|             | 19       | V        | 1        | 1            | 1            | <u> </u>     | <b> </b> |          | _        | <u> </u>   | ļ | -        | 6                                      |
|             | 20       | 7        | -        | _            | 1            |              |          | ⊢        | ⊢        | ├-   | ł |          | -                                      |
|             | 21<br>22 | 1        | 1        | -            | -<br>√       |              | -        | ┢        | ⊢        | ⊢  | ł | <b></b>  | 1                                      |
|             | 23       | H        | 1        | 1            | Ť            |              | -        | ┢        |          | $\vdash$   | { |          | ╁                                      |
|             | 24       | -        | V        | V            | Ì            | ┢            | $\vdash$ |          |          |  | ĺ |          | 7                                      |
|             | 25       |          | _        | 1            | 1            |              |          |          |          |  | 1 |          | 7                                      |
|             | 26       |          |          | 1            | 1            | Γ            |          |          |          |  | 1 |          | 7                                      |
|             | 27       |          |          | V            | ٧            |              |          |          |          |  | ] |          | 7                                      |
|             | 28       |          |          | 1            | 1            |              |          | Ĺ        |          |  |   |          | 7                                      |
|             | 29       |          | _        | ٧            | 1            | _            | L        |          | <u> </u> | <u> </u>   | ļ |          | 7                                      |
| -           | 30       |          | <u> </u> | _            | 1            | _            | _        | -        | <u> </u> | <u> </u>   | - |          | 8                                      |
| -           | 31<br>32 |          | $\vdash$ | $\vdash$     | 4            | -            |          | -        | <u> </u> | ┢  | 1 |          | 8                                      |
| $\vdash$    | 33       | -        | -        |              | -            | $\vdash$     | ⊢        | -        | $\vdash$ | ⊢  | ł | ļ        | H                                      |
| -           | 34       |          | $\vdash$ | <del> </del> | <u> </u>     | -            | $\vdash$ | <u> </u> |          | H  | ł | <u> </u> | B                                      |
|             | 35       | _        | I        |              |              |              |          |          | $\vdash$ | ┢  | İ |          | 8                                      |
|             | 36       |          |          |              |              |              |          |          | _        |  | İ |          | 8                                      |
|             | 37       |          |          |              |              |              |          |          |          |  | İ |          | 8                                      |
|             | 38       |          |          |              |              |              |          |          |          |  | ] |          | 8                                      |
|             | 39       |          |          |              |              | _            |          |          |          |  | Į |          | 8                                      |
| · ·         | 40       |          |          | _            | _            | _            | <u> </u> | L_       | L_       | <u> </u>   | ļ |          | 9                                      |
|             | 41       |          | _        |              | <u> </u>     | <u> </u>     | <u> </u> | _        | _        | L  | ļ | <u> </u> | 9                                      |
| -           | 42<br>43 | $\vdash$ | -        |              | ├            | <u> </u>     | $\vdash$ | H        | $\vdash$ | $\vdash$   | 1 | ļ        | 9                                      |
| -           | 43       | H        | ┢        | <del> </del> | $\vdash$     | ┝            | ├-       | ├        | ├-       | ├  | 1 |          | 9                                      |
|             | 45       |          | -        | _            | <del> </del> | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | 1 |          | 9                                      |
|             | 46       | $\vdash$ |          | H            | Г            | I            | H        | $\vdash$ | _        | <del>                                     </del> | 1 |          | 9                                      |
|             | 47       |          |          |              |              |              | T        | Г        | Г        |  |   |          | 9                                      |
|             | 48       |          |          |              |              |              |          |          |          |  |   |          | 9                                      |
|             | 49       |          |          |              |              |              |          |          |          |  |   |          | 9                                      |
|             | 50       |          |          | ı            | l            | l            | ı        | l        | l        | l  | ı |          | 11                                     |

| Cla         | aim      |              |  |                |  | Date   | e .  |              |  |          |
|-------------|----------|--------------|--|----------------|--|--|--|--------------|--|----------|
| 1           |          | _            | 1  | 1              | _  | _  | 1  | 1            | 1  |          |
| Final       | Original |              |  |                |  |  |  |              |  |          |
|             | 51       | $\vdash$     | $\vdash$   | $\vdash$       | -  | ┝  | H  | ┝            | -  | _        |
| <del></del> | 52       | -            | <del> </del>                                     |                | -  | -  | ┝  | H            | _  | $\vdash$ |
| -           | 52       | ⊢            | ├-   | ├              | <del> </del>                                     | -  | -  |              |  |          |
|             | 53       |              |  | _              |  | <u> </u>   | <u> </u>   | L.           | ļ  |          |
|             | 54       | Ŀ            |  |                |  |  | L  |              | <u> </u>   |          |
|             | 55       |              |  |                |  |  |  |              | L  | L        |
|             | 56       |              |  |                |  |  |  |              | Γ  |          |
|             | 57       |              |  |                |  |  |  |              |  |          |
|             | 58       | $\vdash$     |  |                |  |  |  |              |  | $\vdash$ |
|             | 59       |              |  |                |  | $\vdash$   | -  | -            | <del> </del>                                     | ┢─       |
| _           | 60       | $\vdash$     | $\vdash$   |                | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$ |
|             |          | -            | -  |                | ⊢  | ┝  | -  |              |  | -        |
| <u> </u>    | 61       | ⊢            | <u> </u>   | <u> </u>       | $\vdash$   | $\vdash$   | <u> </u>   | <u> </u>     | <u> </u>   | _        |
|             | 62       | <u> </u>     | L  | <u> </u>       | <u> </u>   | <u> </u>   |  |              |  |          |
|             | 63       |              |  | L_             |  |  |  | L            | L  | L        |
|             | 64       |              |  | Ι              |  |  | -  |              |  |          |
|             | 65       |              |  | <u> </u>       | Ι  | <u> </u>   |  | l            | Γ  |          |
|             | 66       |              |  | $\vdash$       |  | $\vdash$   | $\vdash$   |              | l  | <u> </u> |
| $\vdash$    | 66<br>67 | F            | <del>                                     </del> | <u> </u>       | <del> </del>                                     | <del>                                     </del> | 1  |              | -  | -        |
| -           | 60       | ⊢            |  |                | ⊢  | ┢  | ⊢  | -            | ┝  |          |
|             | 68       |              | _  | <u> </u>       | <u> </u>   | ⊢  | ⊢  | $\vdash$     |  | _        |
|             | 69       | _            |  |                | _  |  | <u> </u>   | <u> </u>     | <u> </u>   | ļ        |
| L           | 70       | _            | L  |                | L  |  |  |              |  |          |
|             | 71       | ŀ            |  |                |  |  | ŀ  |              |  |          |
|             | 72       |              |  |                |  |  |  |              |  |          |
|             | 73       |              |  |                |  | Г  |  | Г            |  |          |
|             | 74       |              |  | $\vdash$       | $\vdash$   | 一  | _  | $\vdash$     |  | _        |
|             | 75       | <del> </del> | $\vdash$   | ├              | ├  | ├  |  | -            | ┢  | $\vdash$ |
|             |          | ⊢            | $\vdash$   | -              | $\vdash$   | ⊢  | ⊢  | ┝╌           | -  |          |
|             | 76       |              | <u> </u>   | <u> </u>       | _  | _  | _  |              |  |          |
|             | 77       | L            | L  |                | <u> </u>   | <u> </u>   | _  |              |  | _        |
|             | 78       |              |  |                |  |  |  | L.           | _  | _        |
|             | 79       |              |  |                |  |  |  |              |  |          |
|             | 80       |              |  |                |  |  |  |              |  |          |
|             | 81       |              |  |                |  |  |  |              |  |          |
|             | 82       |              |  |                | T  | $\vdash$   | <del>                                     </del> |              |  | $\vdash$ |
|             | 83       | $\vdash$     | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$   | -        |
| -           | 84       | ├            | -  | <del> </del> — | ├  | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$ |
|             |          | $\vdash$     | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | <del> </del>                                     | <u> </u> |
|             | 85       | <u> </u>     | <u> </u>   | <u> </u>       | Ŀ  | <u> </u>   | <u> </u>   | <u> </u>     | <u> </u>   | _        |
|             | 86       | <u> </u>     | <u> </u>   | <u>L</u>       | <u> </u>   | L  | <u> </u>   | <u> </u>     | <u> </u>   | _        |
|             | 87       | L            |  |                | L  | L  | L  |              | L  | L        |
|             | 88       |              |  |                |  |  |  |              |  |          |
|             | 89       |              |  |                |  |  |  |              |  |          |
|             | 90       |              | Г  |                | <del>                                     </del> | _  |  |              |  | Т        |
| -           | 91       | $\vdash$     | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | <del>                                     </del> | $\vdash$ |
|             | 92       | -            | $\vdash$   | $\vdash$       | $\vdash$   | $\vdash$   | $\vdash$   | <del> </del> | -  |          |
|             |          | <b> </b> -   | <del> </del> —                                   | $\vdash$       | ⊢  | <u> </u>   | ├  | ├            | ├-   | <u> </u> |
| 1           | 93       | <u> </u>     | <u> </u>   | <u> </u>       | ļ  | <u> </u>   | <u> </u>   | <u> </u>     | _  | <u> </u> |
|             | 94       | 匚            | <u> </u>   | _              |  | <u> </u>   | <u> </u>   |              | _  |          |
| L           | 95       |              |  | L              |  |  |  |              |  |          |
|             | 96       |              |  |                |  |  |  |              |  |          |
|             | 97       |              |  |                | Г  |  |  |              |  |          |
|             | 98       |              | П  | Г              |  | $\vdash$   | Т  | Т            |  |          |
| $\vdash$    | 99       | H            | $\vdash$   | -              | Н  | Н  | $\vdash$   | -            | -  |          |
| $\vdash$    | 100      |              | Н  |                | $\vdash$   | -  |  | $\vdash$     | $\vdash$   | -        |
|             | LIVU     |              |  |                | L  | L  |  |              | ŀ .  |          |

| Cla      | aim  | Date                                |          |          |                                     |          |              |          | $\neg$       |                 |
|----------|--|-------------------------------------|----------|----------|-------------------------------------|----------|--------------|----------|--------------|-----------------|
|          |  |                                     |          |          | Ė                                   | <u> </u> | Ī            |          |              | г               |
| Final    | Original   |                                     |          |          |                                     |          |              |          |              |                 |
|          | 101  |                                     |          |          |                                     |          |              |          |              |                 |
|          | 101<br>102   |                                     |          |          |                                     |          |              |          |              | П               |
|          | 103  |                                     |          |          |                                     |          |              |          |              | П               |
|          | 104  |                                     |          |          |                                     |          |              |          |              |                 |
|          | 105  |                                     |          |          |                                     |          |              |          |              |                 |
|          | 106  |                                     |          |          |                                     |          |              |          |              |                 |
|          | 107  |                                     |          |          |                                     |          |              | ,        |              |                 |
|          | 108  |                                     |          |          |                                     |          |              |          |              |                 |
|          | 109  |                                     |          |          |                                     |          |              |          |              |                 |
|          | 110  |                                     |          |          |                                     |          |              |          |              |                 |
|          | 111  |                                     |          |          |                                     |          |              |          |              |                 |
|          | 112  |                                     |          | L        |                                     | _        |              |          |              |                 |
|          | 103<br>104<br>105<br>106<br>107<br>108<br>109<br>110<br>111<br>112<br>113<br>114<br>115<br>116 |                                     |          | 匚        |                                     |          |              |          |              |                 |
|          | 114  | L                                   |          |          |                                     | L        | _            | _        |              |                 |
| <u> </u> | 115  | L                                   |          |          |                                     |          |              |          | L            | Ш               |
| <u> </u> | 116  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _        | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u>L</u> | <u> </u>     | _        | L_           | Ш               |
|          | 117  | L.                                  |          |          |                                     |          |              |          | L            |                 |
| L        | 118  | <u> </u>                            |          |          |                                     |          |              |          |              |                 |
|          | 119  | L.                                  |          |          |                                     |          | L            | <u>L</u> |              |                 |
| L        | 120  |                                     |          |          |                                     | _        |              |          |              | Щ               |
| L        | 121  |                                     |          | <u> </u> |                                     | L        |              |          |              |                 |
|          | 122  |                                     |          |          |                                     | <u> </u> | _            |          |              |                 |
|          | 117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127                      |                                     |          | L        |                                     | L        | _            | _        | <u> </u>     |                 |
|          | 124  |                                     |          |          |                                     | L        |              | <u> </u> | L            |                 |
| <u> </u> | 125  |                                     |          | L        |                                     | L.       |              |          | <u> </u>     |                 |
| L        | 126  |                                     |          | L        |                                     | L        |              |          |              |                 |
|          | 127  |                                     |          |          |                                     |          |              | L        |              |                 |
|          | 128  |                                     |          |          | _                                   |          |              |          |              | Ш               |
|          | 129  |                                     |          |          |                                     |          |              | L_       |              |                 |
|          | 130  |                                     |          | _        | _                                   | _        | _            | L        |              |                 |
| <u> </u> | 131  | L                                   |          | L_       | _                                   |          |              | L        | $oxed{oxed}$ | Ш               |
|          | 132  |                                     |          |          |                                     |          | ļ.,,         | L        |              | _               |
|          | 128<br>129<br>130<br>131<br>132<br>133<br>134  | $\vdash$                            | _        | $\vdash$ | ldash                               | oxdot    | $\vdash$     | <u> </u> | <u> </u>     |                 |
| <u> </u> | 134  | $\vdash$                            | <u> </u> | $\vdash$ | ļ                                   | <u> </u> | <u> </u>     | <u> </u> | L.           | Щ               |
| $\vdash$ | 135  | $\vdash$                            | <u> </u> | $\vdash$ | <u> </u>                            | <u> </u> | <u> </u>     | <u> </u> | L            | Ш               |
| $\vdash$ | 136<br>137<br>138  | _                                   | <u> </u> | $\vdash$ | $\vdash$                            | <u> </u> | ┞            | $\vdash$ | L            | Щ               |
| <u> </u> | 137  | $\vdash$                            | <u> </u> | $\vdash$ | <u> </u>                            | <u> </u> | <u> </u>     | <b> </b> | <b> </b>     |                 |
| $\vdash$ | 138  | $\vdash$                            | _        | <u> </u> | <u> </u>                            | $\vdash$ | Ь—           | <b> </b> | ļ            | Ш               |
| <b></b>  | 139  | ļ.                                  | <u> </u> | <u> </u> | <u> </u>                            | <u> </u> | <u> </u>     | L        | <u> </u>     | Н               |
| <u> </u> | 140  |                                     | <u> </u> | ⊢        | $\vdash$                            | <u> </u> |              | <u> </u> | <u> </u>     | Н               |
| <u> </u> | 141  | $\vdash$                            | <u> </u> | <u> </u> | <u> </u>                            | <u> </u> | <u> </u>     | <u> </u> | <u> </u>     | Н               |
| <u> </u> | 142  | $\vdash$                            | <u> </u> | $\vdash$ | $\vdash$                            | <u> </u> | ├            | <u> </u> | <u> </u>     | $\vdash \vdash$ |
|          | 143  |                                     | <b> </b> | <u> </u> | <u> </u>                            | <u> </u> | ├            | H        | <u> </u>     |                 |
|          | 144  | $\vdash$                            | <u> </u> | <u> </u> | <del> </del>                        | <u> </u> | <u> </u>     | <u> </u> | <u> </u>     |                 |
| <b></b>  | 145  | $\vdash$                            | <u> </u> | <u> </u> | <b> </b> -                          | _        | <u> </u>     | $\vdash$ | <u> </u>     |                 |
|          | 146  | <u> </u>                            | <u> </u> | ├        | <u> </u>                            | <u> </u> | <del> </del> | <u> </u> | L            | $\vdash$        |
|          | 147  | <u> </u>                            |          | <u> </u> | <u> </u>                            | <u> </u> | <u> </u>     | <u> </u> | L            |                 |
|          | 148  | H                                   | _        | $\vdash$ | Н                                   | L_       | ļ            | <u> </u> | <u> </u>     | Щ               |
| <u> </u> | 149  | <u> </u>                            |          | <u> </u> | L                                   |          | Щ            | Щ        | Щ            | Ш               |
|          | 150  |                                     | L        |          |                                     |          |              |          |              |                 |